

## Synthesis of memantine hydrochloride .

**Patent number:** CN1335299  
**Publication date:** 2002-02-13  
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**Classification:**  
- international: **C07C209/00; C07C209/06; C07C211/38; C07C209/00; C07C211/00;** (IPC1-7): C07C211/38; C07C209/00; C07C209/06  
- european:  
**Application number:** CN20010127788 20010829  
**Priority number(s):** CN20010127788 20010829

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### Abstract of CN1335299

The present invention is the synthesis of memantine hydrochloride as cretinism treating medicine. The compounds 1-bromo-3,5-dimethyl adamantane, acetonitrile and sulfuric acid are made to produce acetamination reaction, and the product collected in water is made to produce alcoholysis reaction with sodium ether and polyalcohol containing no ether linkage. Memantine is then obtained through chloroform extraction and is finally acidified with hydrochloric acid and chloroform recrystallized to obtain memantine hydrochloride. The present invention has simplified operation and avoids using benzenewith harm to human body and environment. Compared with available technology, the present invention has simple operation, good safety, high product quality, reuse of solvent and low cost.

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